AMENDMENTS TO THE SPECIFICATION

Please amend the title as follows:

~~Custom E Research System And Methods~~Remote Execution of Materials Library Designs

Please replace the paragraph at page 17, line 13, to page 18, line 6, as follows:

--Similarly, the user can identify one or more high-throughput screening techniques to be applied to all or a subset of the experimental matrix (step 440). In one implementation, remote user interface program 150 is configured to permit the user to select from a list of available high-throughput reactions and/or screens implemented by instruments 265, such as those disclosed in U.S. Patent Application No. 09/093,870, filed June 9, 1998, now issued as U.S. Patent No. 6,149,882; U.S. Patent Application No. 09/300,634, filed April 27, 1999, now issued as U.S. Patent No. 6,395,552; U.S. Patent Application No. 09/039,991, filed March 16, 1998, now issued as U.S. Patent No. 6,087,181; U.S. Patent Application No. 09/067,448, filed April 27, 1998; U.S. Patent Application No. 09/227,558, filed January 8, 1999, now issued as U.S. Patent No. 6,720,186; U.S. Patent Application No. 09/285,363, filed April 2, 1999; U.S. Patent Application No. 09/285,393, filed April 2, 1999, now issued as U.S. Patent No. 6,265,226; U.S. Patent Application No. 09/285,333, filed April 2, 1999, now issued as U.S. Patent No. 6,260,407; U.S. Patent Application No. 09/285,335, filed April 2, 1999, now issued as U.S. Patent No. 6,175,409; U.S. Patent Application No. 09/285,392, filed April 2, 1999, now issued as U.S. Patent No. 6,294,388; U.S. Patent Application No. 09/410,546, filed October 1, 1999, now issued as U.S. Patent No. 6,296,771; U.S. Patent Application No. 09/414,744, filed October 8, 1999, now issued as U.S. Patent No. 6,536,944; U.S. Patent Application No. 08/946,135, filed October 7, 1997, now issued as U.S. Patent No. 6,541,271; U.S. Patent No. 5,959,297; U.S. Patent 5,985,356; U.S. Patent No. 6,030,917; U.S. Patent No. 6,034,775; U.S. Patent Application No. 09/033,207, filed March 2, 1998; U.S. Patent Application No. 09/174,986, filed October 19, 1998, now issued as U.S. Patent No. 6,157,499; U.S. Patent Application No. 09/417,125, filed November 19, 1998, now issued as U.S. Patent No. 6,528,026; U.S. Patent Application No. 09/177,170, filed October 22, 1998, now issued as U.S. Patent No. 6,548,026; U.S. Patent

2

Application No. 09/211,982, filed December 14, 1998, now issued as U.S. Patent No. 6,306,658; U.S. Patent Application No. 09/293,223 09/239,223, filed January 29, 1999, now issued as U.S. Patent No. 6,489,168; U.S. Patent Application No. 09/474,344, filed December 29, 1999, now issued as U.S. Patent No. 6,373,570; U.S. Patent Application No. 09/112,247, filed July 8, 1998, now issued as U.S. Patent No. 6,151,123; U.S. Patent Application No. 09/149,586, filed September 8, 1998, now issued as U.S. Patent No. 6,410,332; U.S. Patent Application No. 09/458,398, filed December 10, 1999, now issued as U.S. Patent No. 6,535,824; U.S. Patent Application No. 09/215,417, filed December 18, 1998; U.S. Patent Application No. 09/205,071, filed December 4, 1998, now issued as U.S. Patent No. 6,485,692; U.S. Patent Application No. 09/518,794, filed March 3, 2000, now issued as U.S. Patent No. 6,749,814; U.S. Provisional Patent Application No. 60/157,338, filed October 1, 1999; and WO 97/32208. Each of these patents and patent applications is incorporated herein by reference.--

Please replace the paragraph at page 18, lines 18 to 27, as follows:

--Based on the user's library design, remote user interface program 130 creates a set of material handling instructions, which can take the form of a data file or "recipe file" that can be implemented by automated synthesis instruments controlled by research engine 230, as described in co-pending U.S. Patent Application No. 09/305,830, filed on May 5, 1999, now issued as U.S. Patent No. 6,507,945, which is incorporated by reference herein. Remote user interface program 150 packages this recipe file with the user's specified screening information selecting one or more high-throughput screening methods to form an experiment request (step 450). Remote user interface program 150 also calculates an initial estimate of the cost of the set of experiments defined by the experiment request and the time that research system 100 would require to execute the set of experiments. The user can then send the request to user interface subsystem 220 in step 330 above.--

Please replace the paragraph at page 19, line 25, to page 20, line 10, as follows:

--Once the user has approved the experimental plan, research engine 230 executes the plan in steps 350 and 355. Using combinatorial synthesis techniques and automated process

3